

## WARM-UP! Put your work in your notebook :)

Write each percent as a fraction in lowest terms:

1. 30%

$$\frac{30}{100} = \frac{3}{10}$$

2. 12%

$$12\% = \frac{12}{100} = \frac{12 \div 2}{100 \div 2} = \frac{6}{50} = \frac{6 \div 2}{50 \div 2} = \frac{3}{25}$$

3. 45%

$$\frac{45}{100} = \frac{9}{20}$$

Find the mean, median, and mode of the following data:

4. The number of text messages sent in a day by 8th graders:

~~65~~, ~~73~~, ~~51~~, ~~22~~, ~~14~~, ~~56~~, ~~10~~, ~~3~~, ~~17~~, ~~18~~, ~~22~~, ~~33~~, ~~17~~, ~~16~~

mean:  $\frac{417}{14} = 29.8$

~~3~~ ~~10~~ ~~14~~ ~~16~~ 17 17 ~~18~~ ~~22~~ ~~22~~ ~~33~~ ~~51~~ ~~56~~

26

~~56~~  
~~51~~  
~~33~~

*Rates  
&  
Unit Rates*

Let's correct the homework...

500 miles in 7 hrs

$$500 \div 7$$

unit rate: 71.4 mph

QUESTIONS?

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm



Page 6 #9-17

$$\begin{array}{r} 21 \\ +13 \\ \hline 34 \end{array}$$



Time for  
partner work!

*Homework*

#4 Page 10 #5 - 8 & #14

Warm-Up

*Find the unit rate.*

1) *120 mi in 4 hours*

2) *\$6.12 for 5 lbs*

Let's correct the homework . . .

QUESTIONS?

*Examples of unit rates:  $\$7/\text{h}$ ,  $50 \text{ mi}/\text{h}$*

*What if I want to convert rates to different units?*

*Solve the following with your partner.*

*If I make  $\$7/\text{h}$ , how much will I make in a week?*

*If I drive  $50 \text{ mi}/\text{h}$ , how many miles am I driving in one minute?*



*What happens????*

*Discuss with your partner how to  
handle converting rates.*

*(HINT: What did you have to do for each of the problems you just solved?)*

Notes on Rates

*When changing from a BIG unit to a SMALL unit: DIVIDE*

*Example: 15 m/h = \_\_\_\_\_ m/min*

*When changing from a SMALL unit to a BIG unit: MULTIPLY*

*Example: \$2.50/oz = \$\_\_\_\_\_ /lb*

*Complete the following:*

$$2 \text{ mi/min} = \underline{\hspace{2cm}} \text{ m/h}$$

$$16 \text{ in/year} = \underline{\hspace{2cm}} \text{ in/month}$$

# Homework